

**C-SERIES GRADERS**  
**836C | 836C AWD | 856C | 856C AWD**

**CASE**  
CONSTRUCTION



**TIER 4**  
**FINAL**  
EU STAGE IV

**A NEW TOP PLAYER**  
**IN OUR TEAM**

[www.casece.com](http://www.casece.com)  
**EXPERTS FOR THE REAL WORLD**  
**SINCE 1842**

# HERITAGE

## A TRADITION OF INDUSTRY FIRSTS



## EXPERTS FOR THE REAL WORLD SINCE 1842

**1842** Case is founded.

**1867** Eisenwerk Gebrüder Frisch KG was Founded.

**1926** Road building equipment production.

**1934** The First Frisch grader is also the first European motor grader.

**1936** Dedicated Frisch road building plant in Kissing.

**1967** First automatic blade guidance based on ultrasonic system.

**1970** Articulated frame introduction.

**1972** AWD introduction.

**1977** Frisch company acquired by Faun.

**1982** Encapsulated slewing ring introduction.

**1986** Faun grader operations acquired by Orenstein and Koppel (O&K).

**1996** Load Sensing hydraulic system introduction and grader production moved to Berlin.

**2000** High visibility engine hood design introduction.

**2005** FPT engines introduction and 6 cylinder installation on 13 t grader.

**2010** All around visibility cab introduction.

**2013** Low Profile cab introduction.

**2015** Case branded graders enter the European Market.

# POWER TO THE GROUND



Hi-eSCR



## LOW EMISSIONS

### Tier 4 Final

The patented FPT Hi-eSCR is the key for performance and success. The CASE grader is the only one in the market satisfying the restrictive TIER 4 final demands with SCR-only aftertreatment technology. None of the others can provide such a smart solution hugely cost efficient thanks to the following exclusivities:

- No DPF regeneration during the working activities means no waste of Fuel
- No DPF filter periodical replacement
- No need of double stage aftertreatment DPF+SCR
- The FPT engine implies no gas recirculation improving consequently the combustion efficiency
- Neat engine layout thanks to the after treatment small size
- Lower engine cooling requirement and consequently smaller radiator size for better rear visibility and easy cleaning



## DUAL POWER CURVE

Get mor productive at higher speed

The engine is completely application-engineered to power motor graders which require fast torque response to keep high productivity levels. For even higher performances the Dual Power maximizes operation at higher speed thanks to the power curve flattening from 4th gear.



## SAFE AND EASY MAINTENANCE

Never so undemanding

Daily maintenance operations have never been so undemanding: all the main check points, on the left hand side of the machine, are easily reachable from ground level. The tandem mudguards are conceived to be the most functional and safer places to fulfil periodical maintenance operations like the air filter cleaning or the oil refill. The smallest aftertreatment package in the market doesn't impact the engine layout sharpness: the emergency maintenance operations will then be faster and less expensive.

# C-SERIES MOTOR GRADERS



## ERGOPOWER TRANSMISSION WITH TORQUE CONVERTER

### Jerk free shifting

The automatic shifting function eases the operator concentration and optimizes the machine performances letting the grader engine work on the most productive area of the power curve. The function combined with the torque converter never reaches the power unit stall, making the real difference from competitors in the grader sector.

100% automatic diff. Lock: the automatic «no-Spin» differential instantaneously transfers the torque from the slipping tyre to the wheel with better grip. The system doesn't require any driver intervention allowing the operator to be focused on the blade movement control.



## AWD WITH CREEP MODE DRIVE

### Precise at any speed

Creep mode on AWD models: 2 machines in one, the hydrostatic creep mode makes the front speed virtually independent from the engine revolutions: therefore the grader can be used in compaction application reducing the overall fleet deployed in road construction. Independently from the transmission chosen, 4 WD or 6WD, the 836C can be also equipped with 24" tyres: the ideal solution on uneven soils and when a low tyre bumping effect is required.



## ROLLER MOUNTED ENCAPSULATED SLEWING RING

### Zero friction engineering solutions

Moldboard design revolutionizes and maximizes controllability: very low friction developed during operation, jolt-free high rotation torque for a very smooth and accurate blade rotation and steadiness.

The slewing ring is mounted on roller bearings activated by internal gearing avoiding backlash, wear and supporting high mechanical strain. The exclusive moldboard design, with fewer greasing points, reduces the daily maintenance drastically. During the machine service life, periodical substitution of wear inserts is not required cutting down overall maintenance costs.



## "A-SHAPE" FRAME

### Stress free structure

The "A-Shape" structure constantly compensates the efforts while working. The typical lateral stress on off-set position are virtually eliminated for longer operating life. The saddle can be hydraulically set on 5 different positions very easily thanks to a pin lock system; the exclusive moldboard geometry enables the operator to rotate the blade over 90° for each working side without any mechanical interference.



## MULTI-RADIUS BLADE

### Easy material rolling

The infinitely variable radius blade reduces the traction effort, and in finishing operations improves the material mixing effect.



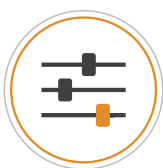
# EXTREME PRECISION



## LOAD SENSING HYDRAULIC SYSTEM

### Flow at your fingertip

The new CASE graders have the most precise hydraulic circuit in the market. With highly responsive and precise controls, the load sensing hydraulics make any operation easy and smooth. A directly activated axial piston pump delivers only the required amount of oil where it is needed, avoiding any power waste. The Control valves provide pressure compensation enabling the moldboard to be lifted or lowered in parallel. A dedicated switch installed on the cab floor allows the operator to obtain maximum output from the hydraulic circuit, independently from the engine revolutions, for faster reactions (Full Flow mode).

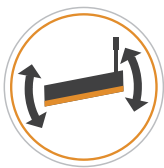


## DIRECTLY MOUNTED CONTROL LEVERS

### Banning power waste, spinning productivity

The exclusive hydraulic block, directly controlled, reduces any lever free play over the entire grader life, meanwhile the operator can benefit from a direct feed-back of the hydraulic system increasing the working accuracy. The float function, available as an option, lets the oil flow unobstructedly in the cylinders so to let the moldboard naturally follow the ground contour. Independently from CASE certified high quality components, this exclusive hydraulic system has been conceived to ensure always unbeatable performances, fuel saving, reliability and grader controllability.

# BLADE CONTROL PREDISPOSITION



## BLADE CONTROL SET UP

### Flexible performance

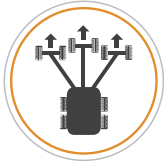
The CASE “800 series” grader can be equipped from factory with the most common blade control installation set up. The unit is delivered to the customer with all the sensors, cables and supports. It’s a real “plug and play” solution: the customer has just to install the antenna and the monitor on the cab and the blade control is ready to work. The system is compatible with different types of controls: Sonic, Laser, GPS or Universal Total Station. The automatic blade control allows even the less skilled operator to get a considerable working capacity from CASE grader, this helps to get the job done faster meaning fewer rounds and always the right amount of material moved. Consequently, grader cost effectiveness in terms of operation and working time.

With CASE control set up each customer can even use blade control devices already installed in other construction units of its fleet making the return on investment more immediate.

The installation of main components in factory provides an easier accessibility and consequently faster maintenance service: this is a guarantee of high manufacturing standard, almost impossible to achieve through aftermarket solutions.



# COMFORT RULES



## REAR MOUNTED CAB

### Aligned with performance

The rear mounted ROPS/FOPS cab offers a highly valuable advantage in comfort and convenience:

- Operators are aware of the articulation angle at all times
- The rear located cab improves visibility on the moldboard
- The cab weight carried on the rear frame emphasizes the machine traction
- Pneumatic and heated seat offered as a standard strengthens operator well-being at work

The wide tinted glass mounted on the front and on the side of the cab provides unobstructed all-around visibility. Even when the driver is working seated, he can have full moldboard visibility till its heel angle. The safety too is improved:

- The new rear view camera guarantees a safer rear visibility and an excellent operator comfort. The driver doesn't have to turn back anymore when he has to drive the machine backward.
- Any obstacle can be easily recognized from a quick look at the wide 7" color screen.



## LOW CAB PROFILE

### A new Cabin equipped with all "mod cons"

Finally, CASE offers an elegant low profile cab on its graders providing best-in class comfort and visibility while reducing the machine's total height of 180mm, so that there are no transport limitations.





# THE ART OF VERSATILITY



## HIGH VERSATILITY

### Tools for every task

CASE graders can be completed with a wide variety of fittings making them suitable for a great number of applications:

- 3 customizable moldboard widths for each model to easily adapt the pushing power to different material density and working conditions
- Different Moldboard extensions for better lateral material retention in fine grading
- Moldboard overload clutch to preserve frame and moldboard from any unexpected collision, recommended in forestry applications
- Moldboard scarifier for easier light soil preparation in a single pass
- 3 or 5 teeth ripper to better scarify the sturdier soil roots
- front blade for faster dozing operations and for improved productivity in combination with the central blade thanks to the engine power high level
- Specific front counterweight: better machine balance and higher tractive effort
- Rear hydraulic set up providing the right oil flow for additional implements such as compactors, it represents the ideal combination with the exclusive creep mode
- Fuel tank refill pump: easier daily tank refill in any working environment
- Additional lights packages:
  - on the rear counterweight
  - on the lower part of the cab for higher light intensity on the moldboard

# MAIN REASONS TO CHOOSE THE C-SERIES



## LOAD SENSING HYDRAULIC SYSTEM

- The balanced flow for all applications and for simultaneous moldboard movements.



## HIGH VERSATILITY

- The wide variety of options offers, to any customer, the possibility to create a tailored grader suitable for the most demanding applications.



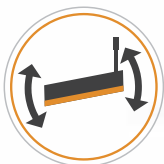
## SAFE AND EASY MAINTENANCE

- The easy serviceability is part of CASE DNA: all the main checks can be easily performed from the wide and safe tandem fenders; all the service points are conveniently grouped and positioned.



## «A-SHAPE» FRAME

- An optimized effort distribution in any condition ensures long operating life.



## BLADE CONTROL SET UP

- Leading brands plug and play blade control system.



## MULTI-RADIUS BLADE

- Lower power absorption and optimized rolling effect.



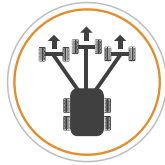
## ROLLER MOUNTED, ENCAPSULATED SLEWING RING

- Maintenance free technology and effortless moldboard rotation.



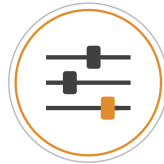
### LOW PROFILE CAB

- Less 180 mm transport height / transport on trucks below 4 mt.-



### REAR MOUNTED CAB

- Best in class controllability and comfort: the operator is always in line with the working direction.



### DIRECTLY MOUNTED CONTROL LEVERS

- Better moldboard control over the years, no free play between levers and main control valve.



### LOW EMISSIONS

- The exclusive «HI-eSCR» technology, with AdBlue-only aftertreatment, dramatically reduces fuel consumption cutting off the after treatment maintenance costs.



### DUAL POWER CURVE

- Higher power rate at high speed (4th gear) increases the grader productivity.



### ERGOPOWER TRANSMISSION WITH TORQUE CONVERTER

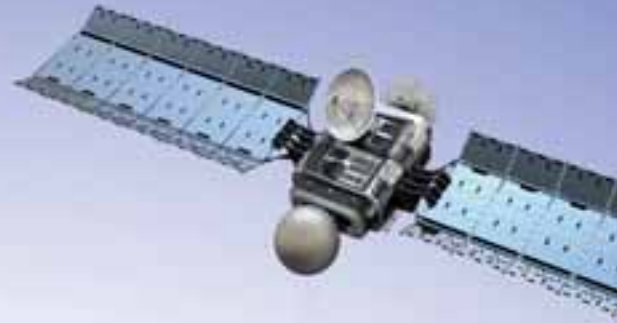
- Smooth shifting for perfect controllability and automatic mode for stress-free operations.



### AWD WITH CREEP MODE DRIVE

- Full traction in any condition and optimized torque transfer adapted to operator needs.

# TELEMATICS



**CASE**®  
CONSTRUCTION

**SiteWatch**™

## THE SCIENCE BIT

The Case SiteWatch telematics system uses a high-tech control unit mounted on each machine to collate information from that machine and from GPS satellites. This data is then sent wirelessly through the mobile communication networks to the Case Telematics Web Portal.

### SiteWatch: centralised fleet control benefits at your fingertips

#### 📶 Measure your true asset availability and optimise it

- Eliminate the “phantom fleet”: SiteWatch allows to identify spare units or under loaded machines on each site.
- Become able to reallocate units where they are more needed.
- Forward Maintenance Planning is easier since the actualised working hours are always available.
- Extend the benefits of SiteWatch to the rest of your fleet: SiteWatch can be installed on the units of other brands as well.

#### 📶 Challenge your Total Cost of Ownership!

- Being able to compare the fuel usage of different machine types will allow you choose the right equipment.
- Save on transport costs with planned and grouped maintenance tasks.
- Peace of mind, optimised uptime and lower repair costs: with preventive maintenance you can for example be alerted if the engine needs to be serviced and avoid a disruptive breakdown.
- Be able to compare your asset Return On Investment on different sites.
- Your equipment is used only during working hours. You can set up alerts so that you know if it is in use during the weekend or at night.
- Integrate with the programmed maintenance package, so that you can be sure every machine is at the right place at the right time.

#### 📶 More Safety, Lower Insurance Premium

- Keep thieves away: dissuade them from attacking your asset because it is geo-localised. SiteWatch is hidden so that thieves can't find it quickly.
- Your fleet is used only where you decide. You can define a virtual fence and receive an email when a machine exits that perimeter.



# C-SERIES

## MOTOR GRADERS

### 836C - 836C AWD SPECIFICATIONS

#### ENGINE TIER 4 FINAL "HI-eSCR"

Maximum Power (ISO 14396/ECE R120)  
 From 1st to 3rd gear \_\_\_\_\_ 102 kW/138 hp  
 From 4th to 6th gear \_\_\_\_\_ 115 kW/156 hp  
 Governed \_\_\_\_\_ 2100 rpm  
 Make & model \_\_\_\_\_ NEF 6 cyl. CR TAA 4V  
 Aftertreatment system \_\_\_\_\_ SCR only  
 Donaldson air filter with dust ejector \_\_\_\_\_ std  
 Type \_\_\_ diesel, common rail, dual power, turbocharged and intercooler  
 Displacement \_\_\_\_\_ 6.7 l  
 Number of cylinders \_\_\_\_\_ 6  
 Bore & stroke \_\_\_\_\_ 104x132 mm  
 Maximum torque at 1400 rpm \_\_\_\_\_ 725 Nm  
 Remote engine oil filter for easy replacement  
 - 25°C outside temperature start as standard equipment  
 The engine complies with 97/68/EC standards TIER 4 Final

#### TORQUE CONVERTER

Single-stage torque converter integrated into shift gearbox  
 Automatic matching of output torque to changing travel conditions  
 Converter ratio \_\_\_\_\_ 1.87: 1  
 Cooling by heat exchanger

#### TRANSMISSION

Full powershift transmission with 6 forward and 3 reverse gears.  
 Electric single-lever shift with reverse-lock in ranges 3-6.

Speeds in km/h

Gear	Forwards	Reverse
1.	5.4	5.7
2.	8.3	13.3
3.	12.6	29.2
4.	19.2	-
5.	27.9	-
6.	39.9	-

#### Tractive effort (adeherence coefficient 0.8)

836C \_\_\_\_\_ 66 kN  
 836C AWD \_\_\_\_\_ 85 kN

#### AXLE FRONT

Oscillating axle with wheel spindle steering and hydraulic wheel lean adjustment

	836C	836C AWD
Axle oscillation	± 15°	± 15°
Wheel lean	± 21.45°	± 21.45°
Ground clearance	485 mm	485 mm

#### AXLE REAR TANDEM

CASE tandem grader axle with automatic No-Spin differential  
 Oscillating tandem drives with heavy-duty roller chains  
 Planetary reduction  
 Oscillation \_\_\_\_\_ ± 15°  
 Tandem box dimensions:  
 Height \_\_\_\_\_ 599 mm  
 Width \_\_\_\_\_ 201 mm  
 Wall thickness \_\_\_\_\_ 20 mm  
 Chain pitch \_\_\_\_\_ 50.8 mm  
 Tandem wheelbase \_\_\_\_\_ 1241 mm

#### ALL WHEEL DRIVE

Selectable in addition to the hydrodynamic rear-wheel drive. Hydrostatic front-wheel drive with E.D.C.V. ( Electronic Drive Control Volume ). A bi-directional swash plate pump (forward/reverse) drives wheel-hub mounted motors in each of the front wheels. Hydraulic No-Spin differential prevents one-sided wheel spin and proportions torque when cornering. A microprocessor monitors and matches front- and rear-wheel drive forces. A stepless switch allows the operator to adapt front-wheel thrust to existing job conditions. Creep mode as standard: front traction only, for ultra low machine speed.

#### BRAKES

Hydraulic, dual-circuit accumulator pump braking with 4 oil bath disc brakes acting on tandem-wheels. Parking brake: disc brake acting on transmission.

#### STEERING

Operated from the adjustable steering and control console. Front-wheel spindle steering, all hydraulic, volume control.

	836C	836C AWD
Steering wheel lock. left/right	40°	40°
Articulated frame with 2 double-flow steering cylinders:		
Articulation angle	± 28°	± 28°
Minimum turning radius:		
across tyres	6600 mm	6800 mm
across front blade	7300 mm	7600 mm

#### TYRES

405/70 R20 SPT9 Dunlop  
 420/75 R20 XMCL TL Michelin  
 455/70 R20 SPT9 Dunlop  
 405/70 R24 SPT9 Dunlop



XMCL MICHELIN SPT9 DUNLOP

#### MOLDBOARD CONTROL

"Load Sensing" for maximising functions controllability. Control levers for precision metering of adjustment speed. Pressure compensation in each of the control valve units permits parallel moldboard lifting or simultaneous operation of two other functions, with no disruptive interaction. A pedal allows the operator to switch to max. output for faster functioning (Full Flow Mode). Unlockable check valves maintain lift/cutting angles and wheel lean cylinders constant.

# SPECIFICATIONS

## A-FRAME

Robust welded box section A-frame.

L-profile cross section \_\_\_\_\_ 125x120x8 mm

## SLEWING RING

Internal gearing, sealed roller-mounted, backlash-free, self-adjusting  
Driven by hydraulic motor and moldboard mechanism

Diameter \_\_\_\_\_ 1150 mm

Action radius \_\_\_\_\_ 360°

## MOLDBOARD

Multiradius wear-resistant, high-grade steel with hardened rounded guides. Replaceable, split main and side blades.

Width \_\_\_\_\_ 2440/3050/3355 mm

Blade height/thickness \_\_\_\_\_ 526/15 mm

Cutting edge height/thickness \_\_\_\_\_ 152/19 mm

Bolt diameter \_\_\_\_\_ 16 mm

## MOLDBOARD SETTINGS

Shifting:

to the right \_\_\_\_\_ 491 mm

to the left \_\_\_\_\_ 708 mm

Reach across tyres w/o articulated steering:

right horizontal \_\_\_\_\_ 1865 mm

left horizontal \_\_\_\_\_ 1525 mm

Reach across tyres with articulated steering:

right horizontal \_\_\_\_\_ 2490 mm

left horizontal \_\_\_\_\_ 2150 mm

Max. slope angle:

right \_\_\_\_\_ 117°

left \_\_\_\_\_ 76°

Max. lift height above ground \_\_\_\_\_ 394 mm

Max. scraping depth \_\_\_\_\_ 456 mm

Cutting angle adjustment, hydr \_\_\_\_\_ 49.5°

## HYDRAULIC SYSTEM

“Load Sensing” with variable displacement axial piston pump. Zero oil delivery under no-function conditions and hence power savings.

Closed system with pressurised tank. Pressure relief valve.

Hydraulic pump \_\_\_\_\_ swash plate, variable displacement

Max delivery \_\_\_\_\_ 94.5 l/min

Max pressure \_\_\_\_\_ 200 bar

Pressure relief setting \_\_\_\_\_ 215 bar

## FRAME

Front frame: stiff, welded section from high-strength, fine-grain steel

Cross-section \_\_\_\_\_ 270 x 270 mm

Wall thickness \_\_\_\_\_ 12 mm

Rear frame \_\_\_\_\_ torsion resistant frame

Cross-section \_\_\_\_\_ 220 x 260 mm

## CAB

Elastically mounted, noise insulated ROPS/FOPS cab with two swinging doors. Either side access. Tinted glass. Rear-frame mounted cab. Heater/defroster nozzles. Heated and Air Suspended seat.

Low profile Cab option reducing overall grader height by 180 mm.

ROPS according to EEC sample testing \_\_\_\_\_ ISO 3471

FOPS according to EEC sample testing \_\_\_\_\_ ISO 3449

Cab noise level \_\_\_\_\_ 77 dbA

External noise level \_\_\_\_\_ 102 dbA

## ELECTRICAL SYSTEM

Voltage \_\_\_\_\_ 24 V

Batteries \_\_\_\_\_ 2 x 100 Ah

Alternator \_\_\_\_\_ 90 A

Starter \_\_\_\_\_ 4 kW

## CAPACITIES

Lube oil \_\_\_\_\_ litres

Coolant (Including: cooler and Heater) \_\_\_\_\_ 12.5

Transmission (including converter and cooling) \_\_\_\_\_ 32.0

Axle gear \_\_\_\_\_ 27.0

Tandem \_\_\_\_\_ 31.0

Worm gear \_\_\_\_\_ 120.0

Hydraulic tank \_\_\_\_\_ 2

Hydraulic oil, total: \_\_\_\_\_ 70.0

836C \_\_\_\_\_ 170.0

836C AWD \_\_\_\_\_ 185.0

Fuel tank \_\_\_\_\_ 278.0

AdBlue tank \_\_\_\_\_ 54

# C-SERIES

## MOTOR GRADERS

### 856C - 856C AWD SPECIFICATIONS

#### ENGINE TIER 4 FINAL "HI-eSCR"

Maximum Power (ISO 14396/ECE R120)  
 From 1st to 3rd gear \_\_\_\_\_ 129 kW/173 hp  
 From 4th to 6th gear \_\_\_\_\_ 142 kW/190 hp  
 Governed \_\_\_\_\_ 2100 rpm  
 Make & model \_\_\_\_\_ NEF 6 cyl. CR TAA 4V  
 Aftertreatment system \_\_\_\_\_ SCR only  
 Donaldson air filter with dust ejector \_\_\_\_\_ std  
 Type \_\_\_ diesel, common rail, dual power, turbocharged and intercooler  
 Displacement \_\_\_\_\_ 6.7 l  
 Number of cylinders \_\_\_\_\_ 6  
 Bore & stroke \_\_\_\_\_ 104x132 mm  
 Maximum torque at 1400 rpm \_\_\_\_\_ 850 Nm  
 Remote engine oil filter for easy replacement  
 - 25°C outside temperature start as standard equipment  
 The engine complies with 97/68/EC standards TIER 4 Final

#### TORQUE CONVERTER

Single-stage torque converter integrated into shift gearbox  
 Automatic matching of output torque to changing travel conditions  
 Converter ratio \_\_\_\_\_ 1.91: 1  
 Cooling by heat exchanger

#### TRANSMISSION

Full powershift transmission with 6 forward and 3 reverse gears.  
 Electric single-lever shift with reverse-lock in ranges 3-6.

Speeds in km/h

Gear	Forwards	Reverse
1.	5.0	5.4
2.	7.7	12.6
3.	11.8	27.9
4.	17.9	-
5.	26.0	-
6.	38.0	-

#### Tractive effort (adeherence coefficient 0.8)

856C \_\_\_\_\_ 95 kN  
 856C AWD \_\_\_\_\_ 117 kN

#### AXLE FRONT

Oscillating axle with wheel spindle steering and hydraulic wheel lean adjustment

	856C	856C AWD
Axle oscillation	± 15°	± 15°
Wheel lean	± 20.3°	± 20.3°
Ground clearance	554 mm	554 mm

#### AXLE REAR TANDEM

CASE tandem grader axle with automatic No-Spin differential  
 Oscillating tandem drives with heavy-duty roller chains  
 Planetary reduction  
 Oscillation \_\_\_\_\_ ± 15°  
 Tandem box dimensions:  
 Height \_\_\_\_\_ 590 mm  
 Width \_\_\_\_\_ 199 mm  
 Wall thickness \_\_\_\_\_ 20 mm  
 Chain pitch \_\_\_\_\_ 50.8 mm  
 Tandem wheelbase \_\_\_\_\_ 1572.6 mm

#### ALL WHEEL DRIVE

Selectable in addition to the hydrodynamic rear-wheel drive. Hydrostatic front-wheel drive with E.D.C.V. (Electronic Drive Control Volume). A bi-directional swash plate pump (forward/reverse) drives wheel-hub mounted motors in each of the front wheels. Hydraulic No-Spin differential prevents one-sided wheel spin and proportions torque when cornering. A microprocessor monitors and matches front- and rear-wheel drive forces. A stepless switch allows the operator to adapt front-wheel thrust to existing job conditions. Creep mode as standard: front traction only, for ultra low machine speed.

#### BRAKES

Hydraulic dual-circuit accumulator pump braking system with four oil cooled disc brakes. Disc brake acting on transmission.

#### STEERING

Operated from the adjustable steering and control console. Front-wheel spindle steering, all hydraulic, volume control.

	856C	856C AWD
Steering wheel lock, left/right	42.5°	42.5°
Articulated frame with 2 double-flow steering cylinders:		
Articulation angle	± 28°	± 28°
Minimum turning radius:		
across tyres	7300 mm	7300 mm
across front blade	8100 mm	8000 mm

#### TYRES

17.5 R25 XHA MICHELIN (transport width<2500 mm)  
 17.5 R25 XTLA G2 MICHELIN  
 17.5 - 25 EM SGL TL GOODYEAR (transport width<2500 mm)



XHA MICHELIN XTLA MICHELIN SLG GOODYEAR

#### MOLDBOARD CONTROL

"Load Sensing" for maximising functions controllability. Control levers for precision metering of adjustment speed. Pressure compensation in each of the control valve units permits parallel moldboard lifting or simultaneous operation of two other functions, with no disruptive interaction. A pedal allows the operator to switch to max. output for faster functioning (Full Flow Mode). Unlockable check valves maintain lift/cutting angles and wheel lean cylinders constant.



# SPECIFICATIONS

## A-FRAME

Robust welded box section A-frame.

L-profile cross section \_\_\_\_\_ 140x140x10 mm

## SLEWING RING

Internal gearing, sealed roller-mounted, backlash-free, self-adjusting  
Driven by hydraulic motor and moldboard mechanism

Diameter \_\_\_\_\_ 1350 mm

Action radius \_\_\_\_\_ 360°

## MOLDBOARD

Multiradius wear-resistant, high-grade steel with hardened rounded guides. Replaceable, split main and side blades.

Width \_\_\_\_\_ 3350/3665/3960 mm

Blade height/thickness \_\_\_\_\_ 603/20 mm

Cutting edge height/thickness \_\_\_\_\_ 152/19 mm

Bolt diameter \_\_\_\_\_ 16 mm

## MOLDBOARD SETTINGS

Shifting:

to the right \_\_\_\_\_ 755 mm

to the left \_\_\_\_\_ 645 mm

Reach across tyres w/o articulated steering:

right horizontal \_\_\_\_\_ 2375 mm

left horizontal \_\_\_\_\_ 1685 mm

Reach across tyres with articulated steering:

right horizontal \_\_\_\_\_ 3235 mm

left horizontal \_\_\_\_\_ 2545 mm

Max. slope angle:

right \_\_\_\_\_ 100°

left \_\_\_\_\_ 112°

Max. lift height above ground \_\_\_\_\_ 480 mm

Max. scraping depth \_\_\_\_\_ 500 mm

Cutting angle adjustment, hydr \_\_\_\_\_ 50°

## HYDRAULIC SYSTEM

“Load Sensing” with variable displacement axial piston pump. Zero oil delivery under no-function conditions and hence power savings.

Closed system with pressurised tank. Pressure relief valve.

Hydraulic pump \_\_\_\_\_ swash plate, variable displacement

Max delivery \_\_\_\_\_ 126 l/min

Max pressure \_\_\_\_\_ 200 bar

Pressure relief setting \_\_\_\_\_ 215 bar

## FRAME

Front frame: stiff, welded section from high-strength, fine-grain steel

Cross-section \_\_\_\_\_ 300 x 300 mm

Wall thickness \_\_\_\_\_ 20 mm

Rear frame \_\_\_\_\_ torsion resistant frame

Cross-section \_\_\_\_\_ 260 x 90 mm

## CAB

Elastically mounted, noise insulated ROPS/FOPS cab with two swinging doors. Either side access. Tinted glass. Rear-frame mounted cab. Heater/defroster nozzles. Heated and Air Suspended seat.

Low profile Cab option reducing overall grader height by 180 mm.

ROPS according to EEC sample testing \_\_\_\_\_ ISO 3471

FOPS according to EEC sample testing \_\_\_\_\_ ISO 3449

Cab noise level \_\_\_\_\_ 78 dbA

External noise level \_\_\_\_\_ 101 dbA

## ELECTRICAL SYSTEM

Voltage \_\_\_\_\_ 24 V

Batteries \_\_\_\_\_ 2 x 100 Ah

Alternator \_\_\_\_\_ 90 A

Starter \_\_\_\_\_ 4 kW

## CAPACITIES

Lube oil \_\_\_\_\_ litres

Coolant (Including: cooler and Heater) \_\_\_\_\_ 12.5

Transmission (including converter and cooling) \_\_\_\_\_ 32.0

Axle gear \_\_\_\_\_ 27.0

Tandem \_\_\_\_\_ 36.0

Worm gear \_\_\_\_\_ 128.0

Hydraulic tank \_\_\_\_\_ 2.5

Hydraulic oil, total: \_\_\_\_\_ 90.0

856C \_\_\_\_\_ 185.0

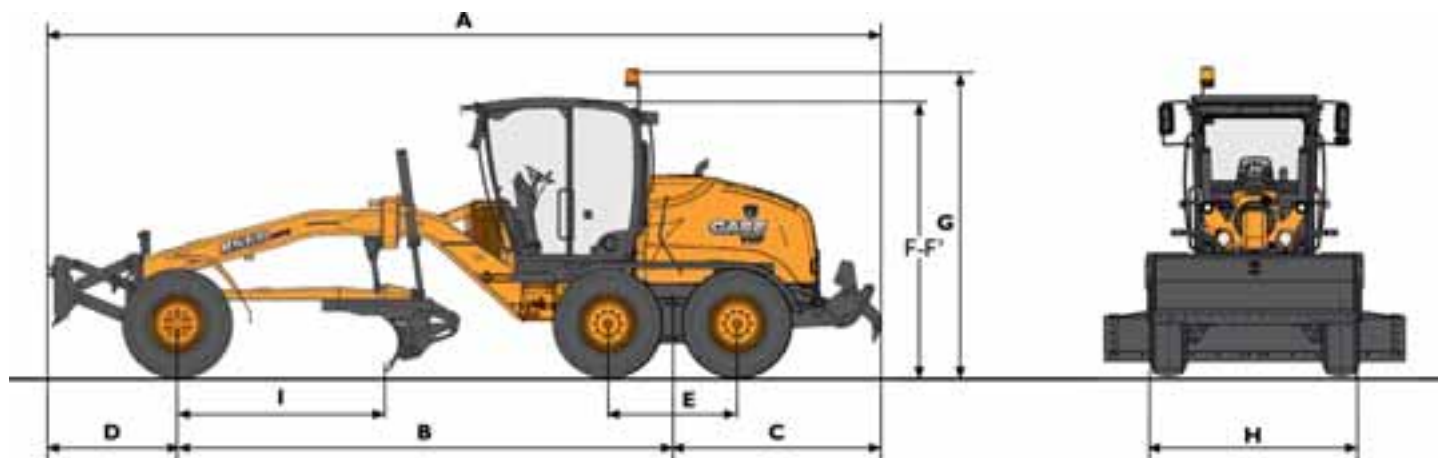
856C AWD \_\_\_\_\_ 200.0

Fuel tank \_\_\_\_\_ 278.0

AdBlue tank \_\_\_\_\_ 54

# C-SERIES MOTOR GRADERS

## GENERAL DIMENSIONS



MACHINE WITH:		836C	836C AWD	856C	856C AWD
Front & rear counterweight	kg	11701	12001	14976	15376
Front blade & rear c/w	kg	11805	12105	15140	15540
Front c/w & rear ripper	kg	12005	12305	15407	15807
Front blade & rear ripper	kg	12109	12409	15571	15971
Max. operating weight	kg	12500	12800	16250	16650

With low Profile Cab the weight is reduced by: 35 kg

836C, 836C AWD EQUIPPED WITH:		FRONT & REAR COUNTERWEIGHT	FRONT BLADE & REAR COUNTERWEIGHT	FRONT COUNTERWEIGHT & REAR RIPPER	FRONT BLADE & REAR RIPPER
A Total length	mm	7697	8372	8331	8961
B Wheelbase	mm			5351	
C Rear attachment end	mm		1605		1605
D Front attachment end	mm	762	1436	762	1436
E Tandem base	mm			1241	
F Standard cab height	mm			3240	
F' Low profile cab height	mm			3060	
G Max machine height	mm			3586	
H Width over tyres	mm		2303		2360
I Blade base	mm			1997	

Dimensions referred to a machine equipped with 405/70R20 tires.  
Machine height and width over tires may vary with other tires.

856C, 856C AWD EQUIPPED WITH:		FRONT & REAR COUNTERWEIGHT	FRONT BLADE & REAR COUNTERWEIGHT	FRONT COUNTERWEIGHT & REAR RIPPER	FRONT BLADE & REAR RIPPER
A Total length	mm	8592	9317	9285	10044
B Wheelbase	mm			6023	
C Rear attachment end	mm		1785		2458
D Front attachment end	mm	809	1568	809	1568
E Tandem base	mm			1572	
F Standard cab height	mm			3330	
F' Low profile cab height	mm			3150	
G Max machine height	mm			3674	
H Width over tyres	mm		2549		2555
I Blade base	mm			2504	

Dimensions referred to a machine equipped with 17.5R25EM tires.  
Machine height and width over tires may vary with other tires.

# SPECIFICATIONS

## HYDRAULICALLY CONTROLLED FRONT DOZER BLADE

		836C - 836C AWD	856C - 856C AWD
Blade width	mm	2350	2450
Blade height	mm	765	870
Penetration depth	mm	136	174
Max. ground clearance	mm	509	547

## HYDRAULICALLY CONTROLLED REAR RIPPER FOR HEAVY DUTY APPLICATIONS

		836C - 836C AWD	856C - 856C AWD
Ripping width	mm	2049	2268
Ripping depth	mm	310	371
Number of shanks	n°	3/5	3/5
Interval of shanks	mm	1000/500	1110/555

## THE MOVABLE MOLDBOARD SCARIFIER CAN BE OPERATED IN BOTH DIRECTIONS

		836C - 836C AWD	856C - 856C AWD
Number of shanks	n°	4	6
Scarifying width	mm	900	1080
<b>RIPPING TRACK DISPLACEMENT</b>			
Left	mm	420	580
Right	mm	950	1200
Scarifying depth	mm	134	202

## STANDARD EQUIPMENT

- Battery main switch
- Cab equipped with two fully swinging doors for both side access, tinted safety glasses, front and rear sunshield
- Caliper disc parking brake operating on transmission
- NEF Tier 4 Final engine with electronic management and “DualPower”
- SCR only exhaust gas aftertreatment
- Cold start
- Control levers for precise and simultaneous moldboard operations
- Front counterweight
- Front & rear fenders
- Front wheel spindle steering with adjustable steering column
- Heating system
- High grade steel moldboard with hardened rounded guides
- Hydraulic & dual-circuit accumulator brake system operating on tandem wheels
- Hydraulically adjustable for 90° bank slope
- Hydrostatic front-wheel drive with E.D.C.V. Electronic Drive \*
- Control Volume & hydraulic differential \*
- Internal gearing, sealed, backlash-free & self-adjusting slewing ring operating on 360°
- “Load Sensing” hydraulic system with variable displacement pump
- Moldboard cutting angle hydraulically adjustable
- Oscillating front axle with hydraulic lean adjustment
- Oscillating tandem axle with automatic no-spin differential
- Powershift transmission with 6 forward & 3 reverse speeds, with integrated torque converter
- Rear counterweight
- Road traffic lights
- Rops/Fops suspended cab, mounted on rear frame
- Standard cab
- Heated and Air Suspended seat
- Creep mode “AWD” version only

\* Only on 836C AWD & 856C AWD

## OPTIONS

- Air conditioning
- Back-up alarm
- Biological hydraulic oil
- Floating valve for moldboard
- Front lights on cab
- Fuel refilling pump (50 l/min)
- Left & right moldboard side plates
- Low profile cab
- Overload clutch on moldboard
- Parallel front blade
- Rear lights on cab
- 3 or 5 teeth rear ripper
- 3 or 5 teeth rear ripper with protection device
- Scarifier on moldboard
- Right moldboard extension
- Rotating beacon
- Tow coupling
- CASE “SiteWatch”
- Rear view Camera with 7” monitor
- Blade control predisposition (Leica, Topcon, Trimble)
- Front counterweight for 836C and 836C AWD (510 kg)
- Front counterweight for 856C and 856C AWD (763 kg)
- Tool box

Note: standard and optional equipment may vary by country. Consult your CASE dealer for specific details.

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**CASE**  
CONSTRUCTION



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*NOTE: Standard and optional fittings  
can vary according to the demands and  
specific regulations of each country.  
The illustrations may include optional  
rather than standard fittings - consult  
your Case dealer. Furthermore, CNH  
Industrial reserves the right to modify  
machine specifications without  
incurring any obligation relating to such  
changes.*

Conforms to directive 2006/42/EC

**CASE** Customer  
Assistance  
**00800-2273-7373**

The call is free from a land line.  
Check in advance with your Mobile Operator  
if you will be charged.

